

## F. RESEARCH AND INQUIRY

<p><b>Content Standard:</b> Students in Wisconsin will locate, use, and communicate information from a variety of print and nonprint materials.</p> <p><b>Rationale:</b> Students acquire a wide range of abilities and tools for raising questions, investigating ideas, and solving problems. Research involves posing interesting and important questions, using multiple sources of information, analyzing and relating facts and concepts, and arriving at conclusions or new understandings (adapted from the national <i>Standards for the English Language Arts</i>).</p>			
<b>Performance Standards: By the end of grade four students will:</b>	<b>Sample Alternate Performance Indicators: (1-3 per standard)</b>	<b>Sample Performance Activities/Tasks: (1-2 per indicator)</b>	<b>Sources of Data</b>
<p>F.4.1. Conduct research and inquiry on self-selected or assigned topics, issues, or problems and use an appropriate form to communicate their findings[4]</p> <ul style="list-style-type: none"> <li>propose research by formulating initial questions, narrowing the focus of a topic, identifying prior knowledge, and developing a basic plan for gathering information</li> <li>conduct research by identifying, locating, exploring, and effectively using multiple sources of information appropriate to the inquiry, including print, nonprint, and electronic sources</li> <li>recognize, record, organize, and acknowledge information pertinent to a project, accurately blending discoveries into answers</li> <li>present the results of inquiry, reporting and commenting on the</li> </ul>	<ol style="list-style-type: none"> <li>Formulate questions to narrow a topic's focus [3]</li> <li>Outline the possible content of a paper or research summary[3]</li> <li>Develop a plan for gathering information[3]</li> <li>Select the appropriate format for presenting information, giving proper credit to sources[3]</li> </ol>	<ol style="list-style-type: none"> <li>Interview, take notes, or record, using a format (e.g., a timeline structure) to present the information(3)</li> <li>Use various graphic organizers to brainstorm, sequence, and outline a paper's content (e.g., cluster mapping or spider mapping, Venn diagrams, cause and effect maps, T-lists [with main ideas on one side of the "T" and details on the other], and timeladder maps)(3)</li> <li>Use various sources (e.g., print resources or questionnaires) and summarize the information(3)</li> <li>Present oral or written information to target audiences, citing sources(3)</li> </ol>	

substance and process of learning, orally and in writing, using appropriate visual aids			
<b><i>Performance Standards: By the end of grade eight students will:</i></b>	<b><i>Sample Alternate Performance Indicators: (1-3 per standard)</i></b>	<b><i>Sample Performance Activities/Tasks: (1-2 per indicator)</i></b>	<b><i>Sources of Data</i></b>
<p>F.8.1. Conduct research and inquiry on self-selected or assigned topics, issues, or problems and use an appropriate form to communicate their findings[4]</p> <ul style="list-style-type: none"> <li>• formulate research questions and focus investigation on relevant and accessible sources of information</li> <li>• use multiple sources to identify and locate information pertinent to research including encyclopedias, almanacs, dictionaries, library catalogs, indexes to periodicals, and various electronic search engines</li> <li>• conduct interviews, field studies, and experiments and use specialized resources (such as almanacs, fact books, pamphlets, and technical manuals) when appropriate to an investigation</li> <li>• compile, organize, and evaluate information, taking notes that record and summarize what has been</li> </ul>	<p>1. Formulate questions to narrow a topic's focus [3]</p> <p>2. Develop a plan for gathering information[4]</p> <p>3. Select the appropriate format for presenting information, giving proper credit to sources[2]</p>	<p>1.a. Interview, take notes, or record, using a format (e.g., a timeline structure) to present the information(3)</p> <p>2.a. Use various sources (e.g., print resources or questionnaires) and summarize what has been learned(3/4)</p> <p>3.a Present oral or written information to target audience, citing sources(2)</p>	

<p>learned and extending the investigation to other sources</p> <ul style="list-style-type: none"> <li>• review and evaluate the usefulness of information gathered in an investigation</li> <li>• produce an organized written and oral report that presents and reflects on findings, draws sound conclusions, adheres to the conventions for preparing a manuscript, and gives proper credit to sources</li> </ul>			
<b><i>Performance Standards: By the end of grade twelve students will:</i></b>	<b><i>Sample Alternate Performance Indicators: (1-3 per standard)</i></b>	<b><i>Sample Performance Activities/Tasks: (1-2 per indicator)</i></b>	<b><i>Sources of Data</i></b>
<p>F.12.1. Conduct research and inquiry on self-selected or assigned topics, issues, or problems and use an appropriate form to communicate their findings</p> <ul style="list-style-type: none"> <li>• formulate questions addressing issues or problems that can be answered through a well-defined and focused investigation</li> <li>• use research tools found in school and college libraries, take notes, collect and classify sources, and develop strategies for finding and recording information</li> <li>• conduct interviews, taking notes or recording and transcribing oral</li> </ul>	<ol style="list-style-type: none"> <li>1. Formulate questions to narrow a topic's focus</li> <li>2. Develop a plan for gathering information</li> <li>3. Select the appropriate format for presenting information, giving proper credit to sources</li> </ol>	<ol style="list-style-type: none"> <li>1.a. Interview, take notes, or record, using a format (e.g., a timeline structure) to present the information</li> <li>2.a. Use various sources (e.g., print resources or questionnaires) and summarize the information</li> <li>3.a. Present oral or written information to target audiences, citing sources</li> </ol>	

<p>information, then summarizing the results</p> <ul style="list-style-type: none"><li>• develop research strategies appropriate to the investigation, considering methods such as questionnaires, experiments, and field studies</li><li>• organize research materials and data, maintaining a note-taking system that includes summary, paraphrase, and quoted material</li><li>• evaluate the usefulness and credibility of data and sources by applying tests of evidence, including bias, position, expertise, adequacy, validity, reliability, and date</li><li>• analyze, synthesize, and integrate data, drafting a reasoned report that supports and appropriately illustrates inferences and conclusions drawn from research</li><li>• present findings in oral and written reports, correctly citing sources</li></ul>			
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